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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/664,048	09/15/2003	Barrie Gilbert	1482-176	2584	
20575 75	590 04/11/2005		EXAMINER		
MARGER JOHNSON & MCCOLLOM, P.C. 1030 SW MORRISON STREET			CHOE, HENRY		
	PORTLAND, OR 97205		ART UNIT	PAPER NUMBER	
•			2817		
			DATE MAILED: 04/11/2005	DATE MAILED: 04/11/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Astinu Commence	10/664,048	GILBERT ET AL.			
Office Action Summary	Examiner	Art Unit			
	Henry K. Choe	2817			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1' after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) divill apply and will expire SIX (6) MONTHS fro, cause the application to become ABANDON	imely filed  ays will be considered timely.  m the mailing date of this communication.  IED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>03 M</u>	larch 2005.				
•	action is non-final.				
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☐ Claim(s) 1-19 is/are pending in the application 4a) Of the above claim(s) 2,6-12 and 15-19 is/a  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1,3-5,13 and 14 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/o	are withdrawn from consideratio	n.			
Application Papers					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 11 March 2004 is/are:  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Example 11.	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. S tion is required if the drawing(s) is c	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applica rity documents have been recei u (PCT Rule 17.2(a)).	ition Noved in this National Stage			
Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/3/05.	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:				

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## **DETAILED ACTION**

## Response to Election

Applicant provisionally elected the species I without traverse. Applicant also designated that the claims 1, 3-5, 13 and 14 read on species I. Examiner agrees with this statement. Therefore, it is concluded that the claims 2, 6-12 and 15-19 are considered non-elected claims.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-5, 13 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by applicant's admitted prior art (Fig. 3).

Regarding claims 1, 4, 13 and 14, applicant's admitted prior art (Fig. 3) discloses an amplifier circuit comprising an input terminal (a terminal receiving –IN signal, a terminal receiving +IN signal), a first gain stage (Q1, Q2)includes a pair of input transistors, the operational amplifiers A1 and A2 include a second gain stage and an output stage to provide inverting (a signal coming out of a collector terminal of transistor Q1) and non-inverting (a signal coming out of a collector terminal of transistor Q2) differential output signals, and a feedback signal (R57, R56) which are electrically connected between the inverting (a collector terminal of transistor Q1) and non-inverting (a collector terminal of transistor Q1) and non-inverting (a collector terminal of transistors Q1 and Q2) of the input transistors (Q1, Q2) through a resistor network (R57, R56).

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are electrically connected between the inverting node (a collector terminal of transistor

Regarding claim 3, the amplifier further including a feedback resistor (R57) which

Q1) and the input terminal (a terminal receiving -IN signal).

Regarding claim 5, the first gain stage (Q1, Q2) further including a pair of

transistors (Q1, Q2) having emitters (emitters of Q1 and Q2) electrically connected to

the output node (a collector terminal of transistor Q1, a collector terminal of transistor

Q2) through a feedback resistor network (R57, R56).

Conclusion

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Patent numbers (5,587,674; 5,537,079) are the differential amplifiers with the

feedbacks.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Henry Choe whose telephone number is (571) 272-

1760.

HENRY CHOE RIMARY EYAMINE

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